LESSON PLAN FOR ENVIRONMENTAL STUDIES

Discipline	Semester: 6 TH	Name of teaching faculty:
Civil	Semester. 0	Sourav Kumar Behera
Subject:	Nos of days per	Semester from date:9.12.19 to date:31.03.20
ENVIRONMENTAL	week class	
STUDIES	allotted: 4	
Week	Class day	Theory topics
DEC 2 ND Week	1 ST	The Multidisciplinary nature of
		environmental studies
		Definition
	2 ND	scope
	3 RD	importance
	4th	Need for public awareness
DEC 3 rd Week	1 ST	Natural Resources
		Natural resources and associated
		problems
		Forest resources: Use and over-
		exploitation, deforestation, case studies
	2 ND	Timber extraction mining, dams and their
		effects on forests and tribal people
	3 RD	Water resources: Use and over-utilization
	TU	of surface and ground water
	4 TH	floods, drought, conflicts over water,
DEC 4th	_ ST	dam's benefits and problems.
DEC 4 th week	1 ST	Mineral Resources: Use and exploitation,
		environmental effects of extracting and using
	ND	mineral resources.
	2 ND	Food Resources: World food problems,
		changes caused by agriculture and over
c+	CT	grazing,
January 1 st week	1 ST	effects of modern agriculture, fertilizers-
	ND	pesticides problems, water logging, salinity
	2 ND	Energy Resources: Growing energy

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		need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	3 RD	Land Resources: Land as a resource, land degradation
January 2 ND	1 ST	man induces land slides, soil erosion, and
week	_	desertification
	2 ND	Role of individual in conservation of natural
		resources
	3 RD	Equitable use of resources for sustainable
	3	life styles
	4 TH	Systems
		Concept of an eco system
January 3rd week	1 ST	Structure of an eco system
	2 ND	function of an eco system
	3 RD	Producers, consumers, decomposers
	4 TH	Energy flow in the eco systems
January 4th week	1 ST	Ecological succession
<u> </u>	2 ND	Food chains, food webs
	3 RD	ecological pyramids
	4 TH	Introduction, types, characteristic features of
		the eco system
January 5th	1 ST	structure and function of the following eco
<u>week</u>		system
	2 ND	Forest ecosystem
	3 RD	Aquatic eco systems (ponds, streams, lakes,
		rivers, oceans, estuaries)
	4 TH	Biodiversity and it's Conservation
		Introduction-Definition: genetics, species and
		ecosystem diversity
February 2nd week	1 ST	Biogeographically classification of India
	2 ND	Value of biodiversity: consumptive use,
		productive use
	3 RD	social ethical, aesthetic and optin values
	4 TH	Biodiversity at global
February 3rd	1 ST	national and local level
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week		
	2 ND	Threats to biodiversity: Habitats loss,
	3 RD	poaching of wild life man wildlife conflicts
	4 TH	
	4	Environmental Pollution
		Definition Causes, effects and control measures
February 4th	1 ST	Air pollution
week	1	All pollution
	2 ND	Water pollution
	3 RD	Soil pollution
February 5th	1 ST	Marine pollution
<u>week</u>	2 ND	Noise pollution
	3 RD	Thermal pollution
	4 TH	Nuclear hazards
March 1st week	1 ST	
iviai cii 15t week	2 ND	Introduction to Solid waste Management
	3 RD	Causes, effects of urban and industrial wastes
	3	Control measures of urban and industrial
	_TH	wastes
	4 TH	Role of an individual in prevention of
	PD	pollution
	3 RD	Urban problems related to energy.
March 3 rd week	1 ST	Water conservation, rain water harvesting
	2 ND	water shed management
	3 RD	Resettlement and rehabilitation of people; its problems nd concern
	4 TH	Environmental ethics: issue and possible
	•	solutions.
		Climate change, global warming, acid rain,
		ozone layer depletion, nuclear accidents and
		holocaust, case studies
March	1 ST	Air (prevention and control of pollution) Act.
4 th week	_	Water (prevention and control of pollution)
		Act.
		Public awareness.
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	2 ND	Human population and the environment Population growth and variation among nations. Population explosion- family welfare program.
	3 RD	Environment and human health. Human rights.
	4 TH	Human rights. Value education
Mach 5 th week	1 ST	Role of information technology in environment and human health